

The fourth to include the spino-tailed and tree-climbing birds—*Dendrocolaptidæ*—with the following genera :—

*Margarornis*, Reichenb., 1853.  
*Premnornis*, Ridgw., 1909.  
*Premnoplex*, Cherrie, 1891.  
*Glyphorhynchus*, Wied., 1831.  
*Dendrocincla*, Gray, 1840.  
*Sittasomus*, Swains., 1827.  
*Deconychura*, Cherrie, 1891.  
*Xiphorhynchus*, Swains., 1827.  
*Dendroplex*, Swains., 1827.  
*Dendrexetastes*, Eyton, 1851.  
*Hylexetastes*, Sclater, 1889.  
*Xiphocolaptes*, Less., 1840.  
*Picolaptes*, Less., 1830.  
*Nasica*, Less., 1830.  
*Drymornis*, Eyton, 1852.  
*Campylorhamphus*, Bertoni, 1901.  
*Dendrocolaptes*, Hermann, 1804.

It may be mentioned also that the limits of this family are not the same as those of Ridgway, who uses the same title.

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XXVIII.—*Descriptions of New Pyralidæ of the Subfamilies Crambinæ and Siginæ.* By Sir GEORGE F. HAMPSON, Bart., F.Z.S., &c.

THE following paper is a supplement to my classification of the Schænobianæ and Crambinæ in the 'Proceedings of the Zoological Society of London' for 1895, pp. 897 to 974.

The name of the former family has been changed, as *Siga* Hübn. is the oldest-described genus contained in it.

The types of the new species are in the British Museum, unless otherwise stated.

Family Pyralidæ.

Subfamily CRAMBINÆ.

Genus NEARGYRIA.

(2) *Neargyria persimilis*, sp. n.

Silvery white; palpi orange at sides; thorax with paired dorsal orange stripes; fore and mid legs and dorsal surface of abdomen tinged with ochreous. Fore wing with fine orange fasciæ on basal

third of costa and on inner margin except at base; an oblique orange band from three-fourths of costa, along which it is diffused to apex, to middle of inner margin; a fine dark brown terminal line; cilia tinged with fulvous; the underside of fore wing and costal area of hind wing tinged with brown.

*Hab.* D'ENTRECASTEAUX Is., Goodenough I. (*Meek*), 1 ♂; Woodlark I. (*Meek*), 1 ♀ type. *Exp.* 18 mm.

(1 a) *Ptochostola metascotiella*, sp. n.

Head and thorax dark brown; abdomen blackish with grey segmental rings. Fore wing dark red-brown with a white fascia from base through the cell to the submarginal line, intersected beyond the cell by an oblique rufous line, its medial part defined by a slight black streak below; some silvery scales at upper angle of cell and streaks on veins 2 and 3; a silvery submarginal line, obtusely angled on vein 5; an oblique white streak from apex and line on apical part of margin; the inner half of outer area dark grey with marginal series of black specks. Hind wing dark fuscous.

*Hab.* CAPE COLONY, Annshaw (*Miss F. Barrett*), 4 ♂ type. *Exp.* 14 mm.

(1 c) *Culladia albimedialis*, sp. n.

♂. Head and thorax white slightly tinged with red-brown; abdomen white; pectus and legs white, the fore tibiae and the tarsi tinged with red-brown. Fore wing white tinged with red-brown, the costal area, cell, and an oblique shade from its extremity to apex silvery white, leaving the costal edge tinged with red-brown to near apex; a slight oblique red-brown line from apex defining the lower edge of the white shade. Hind wing white with a very faint red-brown tinge. Underside of fore wing wholly tinged with red-brown.

*Hab.* QUEENSLAND, Peak Downs, 1 ♂ type. *Exp.* 20 mm.

(1 e) *Culladia irroralis*, sp. n.

♂. Head, thorax, and abdomen white; antennae tinged with red-brown; palpi, pectus, and legs white tinged with red-brown. Fore wing white irrorated with red-brown, rather more thickly on costal and terminal areas; indistinct diffused oblique antemedial and medial lines from cell to inner margin; a distinct oblique red-brown line from apex to inner margin beyond middle with faint diffused streaks beyond it in the interspaces; a fine red-brown terminal line and a line near tips of cilia. Hind wing white. Underside of fore wing tinged with red-brown.

*Hab.* BR. E. AFRICA, Kikuyu, Roromo Flat (*Crawshaw*), 1 ♂ type. *Exp.* 18 mm.

(1f) *Culladia dentilincalis*, sp. n.

♀. Head, thorax, and abdomen white mixed with pale red-brown; palpi white with fuscous bands towards extremity of 2nd joint and at base of 3rd joint; ventral surface of abdomen white. Fore wing white suffused with pale red-brown, the terminal area finely striated with darker brown and with a dark patch on costa before apex; an oblique red-brown antemedial shade from submedian fold to inner margin; a red-brown shade from costa to below end of cell, with a white patch beyond it before the slight red-brown postmedial line which is obliquely excurved to vein 5, then incurved, again excurved above the submedian fold in which it is retracted to below the origin of vein 2, then oblique to inner margin; subterminal line white slightly defined on each side by red-brown, angled outwards below the dark costal patch, then rather irregularly dentate; a fine black terminal line and a brown line near base of cilia. Hind wing white suffused with red-brown. Underside white suffused with brown.

*Hab.* PUNJAB, Simla (*Pilcher*), 2 ♀ type. *Exp.* 20 mm.

(1h) *Culladia sinuimargo*, sp. n.

Fore wing with veins 4, 5 from the cell, the termen sinuous, the anal tuft of male very large.

Head and thorax white irrorated with dark brown; antennæ dark brown; palpi banded with black at sides; abdomen white tinged with rufous, the anal tuft of male fulvous ochreous; pectus, legs, and ventral surface of abdomen white. Fore wing white irrorated with dark brown and some black, the terminal area finely pencilled with blackish; postmedial line white defined on each side by black-brown, oblique to vein 6 where it is angled outwards, then inwardly oblique with an angle outwards at vein 2, erect below vein 1, the veins beyond it with rather diffused black streaks, slightly forking before the subterminal line, which is red-brown, excurved below costa, then slightly waved; a fine black terminal line; cilia brownish, white at base towards apex. Hind wing white, the veins and terminal area except towards tornus suffused with reddish brown; cilia with a brown line near base to vein 2. Underside of fore wing suffused with red-brown except the inner area.

*Hab.* TRANSVAAL, Pretoria (*Janse*), 4 ♂, 1 ♀ type. *Exp.* ♂ 22, ♀ 24 mm.

(1i) *Culladia innotalis*, sp. n.

Fore wing with the termen not sinuous.

♀. Head, thorax, and abdomen ochreous suffused with reddish brown, the vertex of head whitish; antennæ dark brown ringed with white; pectus, legs, and ventral surface of abdomen whitish, the fore and hind legs suffused with reddish brown. Fore wing

ochreous tinged with red-brown and slightly irrorated with greyish fuscous especially at termen in submedian fold and in discal fold in and beyond end of cell; cilia white tinged with ochreous. Hind wing white tinged with ochreous. Underside white suffused with brownish ochreous.

*Hab.* C. CHINA, Fokien, Ting-hai (*de-la-Garde*), 1 ♀ type. *Exp.* 24 mm.

(1) *Eufernaldia micralis*, sp. n.

Fore wing with vein 11 anastomosing with 12; hind wing with veins 4, 5 from the cell.

♂. Head, thorax, and abdomen whitish suffused with brownish ochreous. Fore wing whitish suffused with brownish ochreous and slightly irrorated with blackish; a blackish point at origin of vein 2; a faint curved dark postmedial line between veins 7 and 2 with another faint curved line beyond it from costa to vein 3; a terminal series of minute black points from below apex to vein 2 and a slight brownish line near base of cilia. Hind wing white tinged with ochreous. Underside whitish suffused with brownish ochreous.

*Hab.* JAMAICA, Constant Springs (*Walsingham*), 1 ♂ type. *Exp.* 12 mm.

Genus NEERUPA, nov.

Type, *N. argyrosticta*.

Proboscis minute; palpi downcurved, extending about twice the length of head and clothed with long rough scales; maxillary palpi strongly dilated with scales; frons smooth; eyes large, round; antennæ of male laminate and fasciculate; tibiæ smoothly scaled. Fore wing with the termen somewhat excised from apex to vein 4; vein 3 typically from well before angle of cell; 5 from above angle; 6 from well below upper angle; 7, 8, 9, 10 stalked; 11 from cell. Hind wing with vein 3 typically from well before angle of cell; 5 from above angle; 6, 7 shortly stalked; 8 anastomosing with 7.

(1) *Neerupa benepunctalis*, sp. n.

Fore wing with the termen rather strongly excised from apex to vein 4; vein 3 from close to angle of cell and 4, 5 from angle. Hind wing with vein 3 from close to angle of cell, 4, 5 shortly stalked, and 6, 7 from upper angle.

Head, thorax, and abdomen white suffused with red-brown. Fore wing whitish suffused with red-brown; the costal area white to beyond middle; a faint diffused dark postmedial line, excurved to vein 4, then incurved to middle of inner margin, the area beyond it rather whiter below vein 2; an indistinct double curved punctiform subterminal dark line filled in with slight whitish marks; a terminal series of prominent black points defined on inner side

by white marks. Hind wing and underside white suffused with brown.

*Hab.* COLOMBIA, Choko, La Silva San Juan, 1 ♂; PERU, Carabaya, Oconeque (*Ockenden*), 1 ♀ type. *Exp.* 22 mm.

(2) *Neerupa argyrosticta*, sp. n.

Fore wing with the termen slightly excised from apex to vein 4; both wings with vein 3 from well before angle of cell and 5 from above angle; hind wing with veins 6, 7 shortly stalked.

♂. Head and thorax deep rufous with a golden gloss; abdomen paler golden rufous. Fore wing deep rufous with a golden gloss; a silvery white medial line, excurved to median nervure, then oblique; a diffused whitish discoidal spot; an indistinct rather diffused red-brown postmedial line, somewhat narrowed towards costa, then oblique, a silvery white spot tinged with blue on it at costa and minute streaks at veins 7, 6, the veins beyond it slightly irrorated with bluish white scales; a terminal series of silvery white bars tinged with blue; cilia chequered with white at tips. Hind wing white tinged with rufous; a faint reddish brown subterminal line; a rufous terminal line. Underside of fore wing glossy red-brown, the costal area towards apex and the terminal area yellowish rufous. Hind wing with the costal and terminal areas suffused with rufous, the brown subterminal line distinct.

*Hab.* COLOMBIA, San Antonio (*Palmer*), 2 ♂ type; W. slopes, 1 ♂. *Exp.* 32 mm.

(5a) *Crambus mesoscia*, sp. n.

♂. Head, thorax, and abdomen creamy white, the patagia suffused with red-brown except dorsally, the dorsum of thorax with brown streaks; antennae rufous except above; frons at sides and palpi except above red-brown; legs suffused with red-brown. Fore wing creamy white slightly irrorated with brown; a rather diffused black-brown streak along median nervure with red-brown shades above and below it between discal and submedian folds, expanding beyond the cell to termen and with slight red-brown streaks above it in the interspaces towards apex; a terminal series of prominent black points; cilia with red-brown line near base and some red-brown at tips. Hind wing silvery white with minute dark points on termen from apex to below vein 3. Underside of fore wing except the costal edge on terminal half and the costal area of hind wing suffused with red-brown.

*Hab.* NATAL, Durban (*Leigh*), 1 ♂; CAPE COLONY, Kokstad (*Mrs. Pringle*), 1 ♂ type. *Exp.* 32 mm.

(6c) *Crambus diodonta*, sp. n.

♀. Head, thorax, and abdomen white tinged with rufous; palpi with their lower half red-brown. Fore wing white tinged with rufous in parts, a patch of rufous suffusion beyond lower angle of

cell and the terminal area more distinctly tinged with rufous; a punctiform red-brown medial line, oblique towards costa, angled outwards beyond the angles of cell, then inwardly oblique; post-medial line red-brown, punctiform, oblique to vein 6, inwardly oblique below vein 4 and ending at submedian fold; a terminal series of black-brown points. Hind wing creamy white. Underside white, the fore wing and costal area of hind wing tinged with rufous.

*Hab.* S. NIGERIA, Old Calabar (*Crompton*), 2 ♀ type. *Exp.* 22 mm.

(8 a) *Crambus niveicostellus*, sp. n.

♀. Head, thorax, and abdomen pure white, the patagia rufous except dorsally; antennæ rufous; palpi tinged with rufous except above towards tips; fore tibiæ and the tarsi tinged with rufous. Fore wing with silvery white costal stripe narrowing to a point at apex, the area below it cupreous rufous to submedian fold, then white tinged with rufous; slight white streaks on the veins beyond the cell and a distinct white streak on vein 1; a terminal series of slight red-brown striæ; cilia white, tinged with rufous towards apex. Hind wing silvery white. Underside silvery white.

*Hab.* BR. E. AFRICA, Shambe (*Betton*), 1 ♀ type. *Exp.* 30 mm.

(13 a) *Crambus undilineatus*, sp. n.

Head and thorax grey-white mixed with red-brown, the head white, the antennæ and palpi with more red-brown; abdomen, pectus, and legs white tinged with red-brown, the fore legs deep red-brown on inner side. Fore wing grey-white thickly irrorated with red-brown, especially towards costa; an obscure whitish spot in the cell towards extremity and discoidal annulus open above; postmedial line whitish defined on each side by red-brown, minutely waved, obliquely excurved to submedian fold, then oblique; a terminal series of black points; cilia white with brown lines near base and tips. Hind wing white tinged with red-brown. Underside of fore wing suffused with red-brown.

*Hab.* BR. E. AFRICA, Eb Urru (*Betton*), 1 ♂; TRANSVAAL, White R. (*Cooke*), 1 ♂ type, Pretoria (*Distant*), 3 ♂, 2 ♀; CAPE COLONY, Brak Kloop (*G. White*), 1 ♂. *Exp.* 22-26 mm.

(13 b) *Crambus albidorsatus*, sp. n.

♂. Head and thorax white with a slight cupreous tinge, the patagia cupreous brown; antennæ cupreous brown; palpi cupreous brown, white above on terminal half; abdomen, pectus, and legs white mixed with cupreous brown. Fore wing cupreous brown irrorated with whitish; the inner margin with white streak, the veins beyond the cell finely streaked with whitish; a small black



spot at origin of vein 2; a faint very oblique red-brown striga from middle of costa and slight marks at end of cell; postmedial line red-brown slightly defined on outer side by white and very oblique to vein 7, then represented by slight somewhat dentate red-brown marks defined on outer side by whitish and inwardly oblique to inner margin; a slight white mark at apex and fine black terminal line forming minute spots at the interspaces; cilia pale rufous with a silvery gloss. Hind wing whitish suffused with red-brown; a fine dark terminal line; cilia white. Underside whitish suffused with red-brown, the fore wing with indistinct curved brown postmedial line with a white mark on its outer side at costa.

*Hab.* SINGAPORE (*Ridley*), 1 ♂ type. *Exp.* 22 mm.

(13e) *Crambus cuprescens*, sp. n.

♀. Head and thorax cupreous red-brown mixed with whitish; abdomen, pectus, and legs white tinged with cupreous brown, the fore tarsi red-brown ringed with white. Fore wing whitish tinged with cupreous and thickly irrorated with red-brown; traces of a red-brown medial line, excurved at end of cell, then incurved and again slightly excurved above inner margin; a faint slightly sinuous red-brown postmedial line, excurved below costa, then oblique; a fine slightly waved red-brown terminal line. Hind wing white with a faint cupreous tinge. Underside white, the fore wing and costal area of hind wing tinged with red-brown.

*Hab.* JUAN FERNANDEZ (*J. J. Walker*), 1 ♀ type. *Exp.* 24 mm.

(13f) *Crambus cinereus*, sp. n.

♀. Head and thorax grey-brown with a slight leaden gloss; abdomen white tinged with brown, the anal tuft tinged with rufous. Fore wing grey-brown with a slight leaden gloss; a faint oblique dark bar from middle of costa and slight mark at lower angle of cell; postmedial line indistinct, dark, formed by striae in the interspaces, excurved to vein 4, then oblique; a terminal series of black points; cilia white tinged with brown and with a white line at base. Hind wing white, the costal area and termen to vein 2 with a faint red-brown tinge. Underside of fore wing and costal area of hind wing tinged with red-brown.

*Hab.* DUTCH N. GUINEA, Mimika R. (*Wollaston*), 1 ♀ type, Wataikwa R. (*Wollaston*), 1 ♀. *Exp.* 24 mm.

(13g) *Crambus melanerges*, sp. n.

Head, thorax, and abdomen black-brown with a leaden gloss, the last with the sides whitish; pectus and legs with some white. Fore wing uniform black-brown with a silvery leaden gloss. Hind wing tinged with brown. Underside of fore wing and costal area of hind wing greyish fuscous.

*Hab.* SIERRA LEONE (*Clements*), 1 ♀; UGANDA (*W. B. Gill*), 1 ♂, 1 ♀ type. *Exp.* 20-22 mm.

(14b) *Crambus discistrigatus*, sp. n.

Head and thorax pale olive-brown; antennæ brown, whitish towards base; palpi irrorated with white; abdomen, pectus, and legs whitish suffused with red-brown. Fore wing pale olive-brown, the costal area darker and the costal edge white; a white fascia above median nervure from before middle of cell forming rather diffused streaks beyond the cell on veins 6 to 4; a fine dark terminal line; cilia whitish at base with a fine brown line near base. Hind wing pale grey-brown, the cilia white. Underside whitish suffused with grey-brown.

*Hab.* PUNJAB, Hundes, 1 ♂, 1 ♀ type. *Exp.* 28 mm.

(14d) *Crambus medioradiellus*.

Head and thorax pale red-brown; abdomen yellowish white. Fore wing pale ferruginous irrorated with white scales; a white fascia in submedian fold from base to near outer margin; traces of a curved medial line; a more distinct submarginal line oblique from costa to vein 5 where it is angled, then outwardly defined by white; a marginal series of black points; cilia whitish with a brown line through them. Hind wing yellowish white.

*Hab.* QUEENSLAND, Cooktown, Cedar Bay (*Meek*), 2 ♂, 1 ♀ type. *Exp.* 20 mm.

(16b) *Crambus calamellus*, sp. n.

Head, thorax, and abdomen white tinged with reddish ochreous; antennæ and palpi more rufous. Fore wing white suffused with reddish ochreous and irrorated with brown, the costa brownish towards base; postmedial line brown, very obliquely excurved from costa to vein 4, then inwardly oblique; subterminal line brown, obliquely excurved from costa to vein 4, then rather inwardly oblique and sinuous; a terminal series of minute black points from apex to vein 2; cilia white at base with a fine brown line near base. Hind wing silvery white with a faint red-brown tinge on apical half of terminal area.

*Hab.* PARAGUAY, Santa Cruz (*Moor*), 1 ♀; ARGENTINA, Santa Fé, Ocampo (*Wager*), 1 ♀, Florenzia, Gran Chaco (*Wagner*), 1 ♀, Goya (*Perrens*), 4 ♂, 1 ♀ type. *Exp.* 18-20 mm.

(21a) *Crambus diascia*, sp. n.

♀. Head, thorax, and abdomen white tinged with red-brown, the patagia red-brown; antennæ fuscous except at base; palpi reddish brown at sides. Fore wing white tinged in parts with reddish brown and with a darker brown shade from median nervure to above inner margin to the postmedial line, which is slight, brown, very oblique to vein 7, then minutely waved, incurved



below discal fold and angled outwards at submedian fold; an indistinct curved minutely waved pale brown subterminal line; a terminal series of black points to submedian fold; cilia silvery white at base, tinged with red-brown at tips. Hind wing white, the termen tinged with red-brown to vein 2; cilia silvery white. Underside of fore wing suffused with red-brown except the inner area.

*Hab.* PARAGUAY, Sapucay (*Foster*), 2 ♀ type. *Exp.* 22 mm.

(21 b) *Crambus bidentellus*, sp. n.

*Crambus racabellus*, Druce, Biol. Cent.-Am., Het. ii. p. 290 (part.).

♀. Head and tegulae creamy white; thorax and abdomen white suffused with red-brown; antennae and palpi at sides red-brown. Fore wing white tinged with red-brown and slightly irrorated with darker brown; antemedial line represented by a slight blackish striga in the cell and dentate mark at vein 1; an indistinct blackish medial line, strongly angled outwards at discal fold beyond the cell, then oblique and angled outwards at submedian fold, obsolete below vein 1; an indistinct curved postmedial line from costa to vein 2, with a blackish shade before it except towards costa; a minutely waved pale red-brown subterminal line slightly defined on outer side by silvery white, the area beyond it finely pencilled with brown; a terminal series of minute black points to submedian fold. Hind wing white faintly tinged with red-brown, the cilia pure white. Underside white tinged with red-brown.

*Hab.* MEXICO, Durango (*Becker*), 1 ♀ type, Godman-Salvin Coll. *Exp.* 26 mm.

(23 b) *Crambus atristrigellus*, sp. n.

Head, thorax, and abdomen fuscous brown largely mixed with white, the inner area and still more the costal area strongly irrorated with bright rufous; the medial line represented by an oblique white streak from costa and oblique rufous line on inner area; the postmedial line white defined by bright rufous, oblique towards costa, angled at vein 6, and with a triangular rufous spot beyond it on costa; a terminal series of short black streaks; cilia rufous.

*Hab.* JAMAICA, Mandeville (*Cockerell*), 1 ♂ type, Newcastle, 1 ♀. *Exp.* 14 mm.

(24 c) *Crambus melanolepis*, sp. n.

♂. Head, thorax, and abdomen white with some black-brown scales; antennae tinged with red-brown; palpi, pectus, legs, and ventral surface of abdomen white, the maxillary palpi blackish above, the fore tibiae blackish below and the mid and hind tibiae with blackish rings at extremities. Fore wing white, the costa with some dark brown towards base; an oblique slightly sinuous

black antemedial line from costa to submedian fold with a patch of black scales beyond it above vein 1; a rather oblique wedge-shaped discoidal spot tinged with red-brown and defined by black scales, angled outwards beyond the cell; a slight dark subterminal line, oblique towards costa and with a patch of black scales beyond it, then minutely waved; a slight dark line before termen and a fine black terminal line; cilia with some black scales at tips. Hind wing white, the terminal area faintly tinged with red-brown; a fine dark terminal line and lunulate black mark at tornus with a black bar beyond it on the cilia. Underside white tinged with red-brown.

*Hab.* PERU, R. Pacaya, 1 ♂ type. *Exp.* 16 mm.

(31 a) *Crambus melaneurus*, sp. n.

♂. Head and thorax white with a yellow tinge in parts; antennae brownish except above; palpi with some dark brown at sides; abdomen white suffused with brown; pectus and legs white tinged with yellow-brown. Fore wing silvery white, the costal area to discal fold and the area beyond the cell suffused with golden yellow, narrowing to tornus; streaks of diffused black scales below costa and in upper part of cell from near base to end of cell and similar streaks in the interspaces beyond the cell to below vein 2; a terminal series of prominent black points; cilia brown glossed with metallic silver. Hind wing white tinged with fuscous brown especially on costal half, the cilia pure white. Underside of fore wing fuscous, the terminal half of costa golden yellow, the termen white; hind wing white tinged with fuscous except at termen.

*Hab.* PUNJAB, Dalhousie (*Barrow*), 1 ♂ type. *Exp.* 22 mm.

(44 a) *Crambus minimellus*, sp. n.

Head, thorax, and abdomen white tinged with ochreous; antennae brownish except towards base. Fore wing pale ochreous; a rather diffused blackish medial line, oblique to submedian fold, then inwardly oblique; a rather diffused dark postmedial line defined on outer side by whitish, obliquely excurved to discal fold, then rather inwardly oblique and ending at submedian fold; blackish points on termen at veins 4, 3, 2. Hind wing white, the termen tinged with brown except towards tornus. Underside of fore wing tinged with brown except on inner area.

*Hab.* BR. GUIANA, Bartica (*Parish*), 2 ♂, 1 ♀ type. *Exp.* 10 mm.

(54 a) *Crambus dichotomellus*, sp. n.

♂. White; patagia tinged with pale rufous; abdomen irrorated with fuscous. Fore wing irrorated with fuscous; a black line from base through the cell obsolescent towards outer margin and defined by pure white below; very pale rufous suffusion on costal area and below base of median nervure.

*Hab.* CAPE COLONY, Annshaw (*Miss F. Barrett*), 1 ♂ type, Grahamstown, 1 ♂, Zuurberg (*Bairstowe*), 1 ♂. *Exp.* 24 mm.

(54b) *Crambus ellipticellus*, sp. n.

♂. Head, thorax, and abdomen dirty white, the two latter suffused with pale brown; palpi brownish at sides. Fore wing somewhat elliptical and rounded at apex, white, the interspaces of costal half and the whole inner half suffused with pale brown leaving an almost pure white streak from base along median nervure to outer margin; the inner half irrorated with erect black scales of which there are a few on costal half also; a terminal series of black points. Hind wing white, the apical area suffused with brownish.

*Hab.* NATAL, Estcourt (*Hutchinson*), 2 ♂ type. *Exp.* 26-28 mm.

(62a) *Crambus elongatus*, sp. n.

♂. Head, thorax, and abdomen white with a reddish ochreous tinge; antennae fuscous; palpi with some blackish at sides, white above and below; pectus and legs suffused with fuscous. Fore wing white tinged with reddish ochreous leaving the costal area pure white except towards base; irrorated with a few black scales especially in submedian interspace and beyond the cell; a terminal series of black points to vein 3; cilia pure white. Hind wing white with a slight reddish ochreous tinge, the cilia pure white. Underside of fore wing suffused with fuscous brown, the terminal area white; hind wing white, the costal area tinged with brown.

*Hab.* CHILI, Chillan, 8000' (*Elwes*), 2 ♂ type. *Exp.* 40 mm.

(77a) *Crambus tripartitus*, sp. n.

♂. Head white, the antennae and palpi black; thorax black with a cupreous gloss and with dorsal white stripe; abdomen white with reddish brown hair on dorsum towards base; pectus and ventral surface of abdomen white suffused with cupreous brown; legs cupreous black-brown, the hind tibiae streaked with white above. Fore wing with the costal area cupreous black-brown; a silvery white stripe through the cell and thence obliquely to apex, a broad cupreous black-brown stripe below it; the inner area silvery white with some cupreous brown scales on terminal half of inner margin and irroration on tornal area; a terminal series of black points from below apex to vein 2; cilia white with cupreous brown line near base except towards apex and some cupreous brown at tips. Hind wing silvery white. Underside with the fore wing and costal area of hind wing suffused with brown, leaving some white in and just beyond the cell of fore wing.

*Hab.* NATAL, Maritzburg (*Burnup*), 1 ♂ type. *Exp.* 24 mm.

(77c) *Crambus chalcimernus*, sp. n.

♂. Head and thorax silvery white, the tegulae, except dorsally, and patagia cupreous yellow; antennae tinged with fuscous; palpi dark brown mottled with white; abdomen white dorsally suffused with cupreous yellow towards base; pectus, legs, and ventral surface of abdomen with some brown suffusion. Fore wing with the

costal area to discal fold cupreous yellow leaving the costal edge white; a silvery white stripe along median nervure and below discal fold to termen, a cupreous yellow stripe below its basal half, the inner area silvery white tinged and slightly irrorated with brown. Hind wing white suffused with reddish brown, the cilia pure white. Underside suffused with red-brown, the inner area of hind wing whiter.

*Hab.* BASUTOLAND, Masite (*Crawshay*), 1 ♂ type, Mohalishoek (*Crawshay*), 2 ♂. *Exp.* 24 mm.

(128 a) *Crambus micralis*, sp. n.

Head white; thorax whitish mixed with cupreous brown; abdomen whitish with a slight cupreous tinge; antennæ brownish; pectus and legs whitish suffused with cupreous brown. Fore wing whitish tinged with cupreous and irrorated with dark brown; a patch of dark brown scales below middle of cell; postmedial line brown, oblique from costa to discal fold, where it is angled outwards, then inwardly oblique to middle of inner margin, forming a diffused spot at submedian fold; subterminal line double, dark cupreous brown, minutely waved, rather oblique towards costa, the inner line incurved at discal fold and curved inwards to inner margin; a black-brown terminal line; cilia white with a silvery gloss. Hind wing white tinged with brown, the cilia pure white. Underside of fore wing tinged with red-brown.

*Hab.* CUBA, Tanamo (*Schaus*), 2 ♂, 2 ♀; COLOMBIA, Honda, 1 ♂ type. *Exp.* 12 mm.

(131 a) *Crambus argentinaculalis*, sp. n.

Head, tegulae, and patagia white; palpi banded with brown; thorax brown; pectus and legs white, the tarsi banded with brown; abdomen fuscous above, white below. Fore wing red-brown; a large triangular white antemedial patch narrowing from below costa to inner margin; a diamond-shaped postmedial spot on costa and a hexagonal patch extending from vein 3 to inner margin; the fine postmedial line oblique from costa to vein 5, then joining the large patch at tornus; an apical spot; a fine dark terminal line; cilia white and rufous. Hind wing white tinged with yellow in male, with fuscous in female.

*Hab.* BRAZIL, Petropolis (*Doer*), 1 ♂, 1 ♀ type, Sao Paulo (*D. Jones*), 1 ♂, Castro Parana (*D. Jones*), 1 ♀. *Exp.* 16 mm.

(131 b) *Crambus reseda*, n. n.

*Culladia mignonette*, Dyar, Insec. Incit. Menstr. ii. p. 164 (1914), nom. prav.

BR. & FR. GUIANA.

(131 d) *Crambus argyriplagalis*, sp. n.

♀. Head and thorax brown; palpi white mixed with brown; tegulae and patagia, pectus and legs white; abdomen fuscous above, white below. Fore wing red-brown: some white at base of

inner margin; a broad white antemedial band; a similar post-medial band with sinuous edges, its outer edge dentate below costa with an oblique striga from costa beyond it; a white patch at apex and another on termen from vein 4 to terminus; cilia white, silvery at middle. Hind wing white strongly tinged with fuscous.

*Hab.* SURINAM, Paramaribo (*Ellacombe*), 1 ♀. *Exp.* 14 mm. Type in Coll. Rothschild.

(132 a) *Crambus tessellatus*, n. sp.

♂. Head and thorax white mixed with dark cupreous brown; abdomen white suffused with brown; antennæ brownish; palpi cupreous brown, white above and below; pectus and legs white suffused with cupreous brown. Fore wing silvery white irrorated with some cupreous brown scales; a small rather wedge-shaped black-brown antemedial mark in cell and streak above inner margin; an ill-defined spot in middle of cell; a narrow cupreous brown medial band, oblique to middle of discocellulars, where there is an ill-defined black spot on it, then inwardly oblique and with elongate black mark on it below end of cell; an incomplete cupreous brown annulus beyond end of cell; subterminal line double, rather diffused cupreous brown, rather oblique to discal fold, then inwardly oblique and with diffused black spots on the inner line below veins 4 and 1; a slight black-brown subapical spot; a fine black-brown terminal line. Hind wing white tinged with reddish brown; cilia white with a brown line near base. Underside of fore wing suffused with reddish brown.

*Hab.* BR. E. AFRICA, N'dimu (*Betton*), 1 ♂ type. *Exp.* 14 mm.

(134 a) *Crambus perdentellus*, sp. n.

Head and thorax white, the patagia suffused with red-brown; antennæ dark brown; palpi banded with dark brown; abdomen whitish suffused with brown; fore legs and the tarsi cupreous brown above. Fore wing white irrorated and in parts suffused with cupreous brown; the costal edge black-brown towards base; medial line double, dark brown, very oblique to discal fold beyond the cell, where it is acutely angled outwards, then inwardly oblique, diffused and waved below the cell; subterminal line double, dark brown, obliquely excurved to discal fold, where it is angled outwards and also below vein 4, then strongly angled inwards just above submedian fold and outwards just below it; a fine black terminal line; cilia with a dark line near base and some dark brown at tips. Hind wing white, tinged with brown especially towards termen; cilia pure white. Underside of fore wing and costal area of hind wing suffused with dark brown.

*Hab.* BR. C. AFRICA, Mlanje plateau, 6500' (*Neave*), 2 ♂, 6 ♀ type. *Exp.* 22 mm.

(134 b) *Crambus apicivolutatus*, sp. n.

♂. Head, thorax, and abdomen white tinged with reddish brown; antennæ ringed with brown; palpi brown mixed with



white. Fore wing tinged in parts and slightly irrorated with reddish brown; a dark streak in basal half of submedian fold and a blackish fascia in and beyond end of cell; slight diffused blackish marks beyond upper and lower angles of cell; the veins beyond the cell with slight white streaks defined by red-brown; subterminal line white defined on each side by brown, oblique to vein 6 near termen, then slightly sinuous, angled inwards at vein 2 and outwards at submedian fold, a semicircular chocolate-brown patch beyond it on apical part of costa; a fine dark terminal line; cilia with a dark line at middle. Hind wing white with a faint brown tinge; cilia with a pale brown line at middle. Underside of fore wing and costal area of hind wing tinged with brown.

*Hab.* FORMOSA, Banshorio (*Wileman*), 1 ♂ type. *Exp.* 12 mm.

(134c) *Crambus distictellus*, sp. n.

♂. Head white; thorax and abdomen white with a slight cupreous tinge; antennæ tinged with brown; palpi at sides, pectus and legs suffused with cupreous brown. Fore wing silvery white tinged with cupreous brown; an indistinct cupreous brown medial line, angled outwards at discal fold beyond the cell, then inwardly oblique and slightly sinuous, black points on it at discal and submedian fold; subterminal line double, cupreous brown filled in with white, very minutely waved, oblique to discal fold, then inwardly oblique and slightly incurved at submedian fold where there is a black point on the inner line; a dark cupreous brown terminal line; cilia silvery white at base, cupreous at tips. Hind wing silvery white with a faint cupreous tinge on costal area; a slight brown terminal line to vein 2. Underside of fore wing and costal area of hind wing suffused with cupreous brown.

♀. Thorax and fore wing more strongly suffused with cupreous.

*Hab.* FORMOSA, Takow (*Wileman*), 1 ♂, 1 ♀, Tainan (*Wileman*), 5 ♂ type, Anping (*Wileman*), 1 ♂, 1 ♀. *Exp.* 18 mm.

(134d) *Crambus prodontellus*, sp. n.

Head, thorax, and abdomen white suffused in parts with cupreous; palpi grey-brown at sides; tarsi white ringed with brown. Fore wing silvery white tinged with cupreous; dark streaks on subcostal and median nervure, slight cupreous brown streaks below basal half of costa and in discal fold and a shade below median nervure to just beyond end of cell; medial line double, dark, very oblique to discal fold where it is angled outwards to well beyond the cell, then angled inwards to origin of vein 2 and ending at submedian fold; subterminal line golden cupreous, slightly defined on outer side by silver, indistinctly double and oblique to discal fold near termen, then inwardly oblique and slightly sinuous, an oblique wedge-shaped dark brown mark beyond it from apex, defined below by white; a series of short black streaks in the interspaces of terminal area to vein 2; a fine blackish terminal line; cilia with a blackish line near base and some dark scales near tips. Hind wing white tinged with



cupreous brown, a rather darker terminal line; cilia white with a slight cupreous brown line near base. Underside of fore wing and costal area of hind wing suffused with cupreous brown.

Ab. 1. Fore wing with the markings paler and much less distinct.

*Hab.* BR. E. AFRICA, Kikuyu, Kiu (*Crawshaw*), 1 ♀; TRANSVAAL, Groenvlei (*Janse*), 1 ♀, Doornfontein (*Janse*), 1 ♂, Pretoria (*Janse*), 1 ♂ type; CAPE COLONY, Zuurberg (*Bairstow*), 1 ♀. *Exp.* 18 mm.

(136 a) *Crambus diarhabdellus*, sp. n.

♀. Head and thorax white mixed with some black-brown; abdomen white, tinged with brown at base; antennæ brownish; palpi white above, brown below; legs streaked with brown. Fore wing white with slight red-brown irroration on costal half and more distinct irroration on inner half; a black streak on median nervure to end of cell and thence to the subterminal line below discal fold, defined below by a red-brown shade; a slight red-brown streak in discal fold beyond the cell; a slight red-brown line from middle of costa, angled outwards at discal fold to the subterminal line and ending at the black streak; subterminal line double, red-brown filled in with silvery white, obliquely excurved to discal fold, then rather oblique and sinuous, an oblique wedge-shaped black mark beyond it from apex and quadrate spots at discal and submedian folds; a fine black terminal line; cilia white, tinged with red-brown at tips. Hind wing white with a faint brownish tinge. Underside of fore wing and costal area of hind wing suffused with red-brown.

*Hab.* SUDAN, Blue Nile (*Flower*), 1 ♀; BR. C. AFRICA, Mt. Mlanje (*Neave*), 1 ♀ type. *Exp.* 22 mm.

(138 a) *Crambus microstrigatus*, sp. n.

Head and thorax white, the tegulae at sides and patagia tinged with reddish ochreous; palpi tinged with brown; abdomen creamy white; tarsi brown ringed with white. Fore wing silvery white with a faint cupreous tinge in the interspaces; a black discoidal point; a fine golden cupreous line from middle of costa, angled outwards at discal fold to far beyond the cell, then inwards to origin of vein 2 and ending at submedian fold; subterminal line golden cupreous defined on outer side by silver, double towards costa, obliquely excurved to discal fold, then oblique, a golden cupreous streak beyond it from apex; a series of minute black streaks before termen from below apex to vein 2; a fine golden cupreous terminal line; cilia with a golden cupreous line near base and some golden cupreous at tips. Hind wing silvery white with a faint red-brown tinge, the cilia pure white. Underside of fore wing and costal area of hind wing with a slight red-brown tinge.

*Hab.* BR. C. AFRICA, Mt. Mlanje (*Neave*), 1 ♂, 5 ♀ type. *Exp.* 20-22 mm.

\* (138 b) *Crambus chionostola*, sp. n.

♀. Pure white. Fore wing with subbasal fulvous points in and below the cell: an oblique striga below costa before middle with a point on median nervure just beyond it and another striga on vein 1 nearer the base: a rather darker discoidal point; the post-medial line represented by an oblique striga from costa, with a longer and more oblique striga on its inner side to vein 7 where it is angled, then by a slightly incurved series of points; a terminal series of points; cilia chequered white and golden ferruginous. Hind wing with terminal ferruginous line from apex to vein 3.

*Hab.* ALOR Is. (*Doherty*), type ♀ in Coll. Rothschild. *Exp.* 24 mm.

(138 c) *Crambus agraphellus*, sp. n.

♂. Head, thorax, and abdomen white with a faint ochreous brown tinge; antennæ tinged with fuscous. Fore wing white slightly tinged with ochreous brown; a slight rather oblique brown discoidal lunule; a faint curved slightly waved brownish sub-terminal line; a slight brown terminal line. Hind wing silvery white. Underside of fore wing and costal area of hind wing suffused with red-brown.

*Hab.* SEYCHELLES Is., Aldabra (*Fryer*), 1 ♂ type. *Exp.* 16 mm.

(138 d) *Crambus monostictus*, sp. n.

♀. Head, thorax, and abdomen white; pectus, legs, and ventral surface of abdomen with a red-brown tinge. Fore wing white, the area beyond the cell tinged and irrorated with pale red-brown: a black discoidal point; traces of an obliquely curved red-brown line from costa beyond middle to middle of inner margin; a rather punctiform black terminal line; cilia with a fine black line near base and brownish line near tips. Hind wing silvery white with a slight red-brown terminal line except towards tornus. Underside of fore wing tinged with red-brown.

*Hab.* BR. C. AFRICA, Mpondas (*de Jersey*), 1 ♀ type. *Exp.* 18 mm.

(165 a) *Crambus argentictus*, sp. n.

*Crambus quinquearatus*, Druce, Biol. Centr.-Am., Het., ii. p. 289 (nec Zell.).

Head and thorax golden cupreous; antennæ brown; palpi below and pectus in front white; abdomen whitish suffused with red-brown, the anal tuft whiter. Fore wing golden cupreous; a silvery white fascia from below costa to submedian fold, its lower edge very slightly angled at lower angle of cell, then narrowing to near termen and bent upwards as a wedge-shaped mark to apex; a slight dark streak below it in submedian fold to end of cell; postmedial line cupreous, oblique to discal fold, then inwardly oblique and

slightly sinuous, some slight white marks beyond it on costa and fine white pencillings below the fascia with short black streaks in the interspaces before termen to the submedian fold; a fine cupreous brown terminal line; cilia silvery white, tinged with cupreous brown at tips. Hind wing silvery white. Underside of fore wing white tinged with red-brown above and below the fascia which is faint and diffused.

*Hab.* MEXICO, Jalapa (*Trujillo*), 3 ♂, 6 ♀ type, Misantla (*Trujillo*), 1 ♀, Godman-Salvin Coll.; BAHAMAS, Andros (*Bonhote*), 1 ♂. *Exp.* 22-24 mm.

(167 a) *Crambus ruptifascia*, sp. n.

♀. Head and thorax cupreous brown; palpi white below at base; abdomen white, tinged with brown at base and more strongly on ventral surface. Fore wing cupreous brown; a silvery white fascia from base through the cell, ending in a point well beyond it, a short white streak on costa beyond middle and an oblique wedge-shaped mark from apex; a curved metallic silver subterminal line with a golden cupreous shade before it with slight silvery streaks before its inner edge; short black streaks in the interspaces before termen from below the oblique white mark to below vein 2; cilia silvery white tinged with red-brown and with a red-brown line near base. Hind wing whitish suffused with red-brown, the cilia white with a red-brown line near base. Underside of fore wing brown, of hind wing whitish suffused with brown.

*Hab.* MEXICO, Milpas (*Ferrer*), 1 ♀ type, Godman-Salvin Coll. *Exp.* 30 mm.

(169 a) *Crambus aureornatus*, sp. n.

♂. Head and thorax cupreous red; antennae brownish; palpi pale red-brown, white below; abdomen white tinged with red. Fore wing cupreous red, the inner area with a whitish tinge; a silvery white fascia from base through the cell, bidentate before the subterminal line and the upper tooth met by an oblique wedge-shaped silvery white mark from apex; a metallic silver subterminal line, oblique to vein 6; a series of short black streaks before termen from below the oblique white mark from apex to below vein 2; a blackish terminal line towards apex; cilia white tinged with rufous, pure white towards apex. Hind wing silvery white. Underside with the fore wing and costal area of hind wing rufous.

*Hab.* BRAZIL, São Paulo (*D. Jones*), 3 ♂ type. *Exp.* 26-30 mm.

(169 b) *Crambus brachiferus*, sp. n.

♂. Head white; thorax cupreous with a white dorsal stripe; abdomen white tinged with red-brown; antennae blackish; palpi pale brown at sides; pectus and ventral surface of abdomen white; legs pale brown. Fore wing cupreous; a silvery white fascia

defined by dark streaks from base through the cell, bifurcating and forming a lobster-claw mark before the subterminal line, the upper claw met by an oblique wedge-shaped silvery white mark from apex; a silvery white fascia from inner margin before middle to termen below vein 1, defined above and below by dark streaks except towards base; a white fascia below terminal part of submedian fold; subterminal line dark defined on each side by white and oblique to vein 6, then inwardly oblique and cupreous brown defined on outer side by silver; a triangular cupreous brown mark on apical part of costa; the terminal area white finely pencilled with cupreous brown below the oblique mark from apex and with fine black streaks in the interspaces to the submedian fold where the streak extends to before the subterminal line; the apex strongly produced and hooked, with a black line on termen towards apex; cilia white, tinged with cupreous towards tips. Hind wing silvery white tinged with red-brown, the cilia pure white. Underside of fore wing and costal area of hind wing suffused with red-brown.

*Hab.* BR. C. AFRICA (*Coryndon*), 1 ♂ type, Mt. Mlanje (*Neave*), 1 ♂; MASHONALAND (*Dobbie*), 1 ♂ *Exp.* 20-24 mm.

(169 c) *Crambus infradentatus*, sp. n.

♂. Head and thorax white tinged with brown, the patagia rufous; palpi dark brown mixed with white, white above; abdomen white tinged with red-brown. Fore wing cupreous; the costal edge white except towards base; a silvery white fascia from base through the cell to the subterminal line where it is met by an oblique silvery white wedge-shaped mark from apex, its lower edge with a black tooth on base of vein 2 and its upper edge defined by a black streak on terminal half, the oblique mark from apex also defined by black lines at sides; a diffused silvery white fascia along vein 1; postmedial line cupreous, very obliquely excurved and defined below by white from middle of costa to discoidal fold, then defining the lower edge of the fascia to vein 3 where it terminates; subterminal line cupreous, oblique and defined on outer side by silvery white to discal fold, then inwardly oblique defined on outer side by metallic silver and ending at submedian fold; the terminal area white finely pencilled with cupreous brown and with black streaks in the interspaces from below the oblique mark from apex to submedian fold and with fine cupreous brown terminal line; cilia silvery white with a cupreous brown line near base becoming black towards apex. Hind wing silvery white. Underside of fore wing suffused with brown, the inner and terminal areas whitish, the termen with dark line towards apex, then a series of points to submedian fold; hind wing with the costal area tinged with red-brown.

*Hab.* TRANSVAAL, White R. (*Cooke*), 1 ♂ type. *Exp.* 24 mm.

[To be continued.]